# 1/21/82 DRAFT

## CLOSURE COST ESTIMATE CHECK

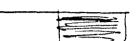
I. FA	CILITY INFORMATION				
EPA ID	#				
Addres	S				
Owner	(name & phone number)				***************************************
Operate	or (name & phone number	)			
TYPE (	circle all that apply)	S (C/T/D/P)	I LF LT	SI CPBT	TT UI
Size o	f Facility (acres and/o	r volume)			
II. IN	VENTORY DISPOSAL			•	
<del></del>	Fill-in following tabl				
1.	riii-in lollowing cabl	١			
		Off-Site Disposal	On-Site Disposal		
	Inventory (tons)				
	Residues (tons)				
	Total (tons)	(a)	(b)		
2.	Off-site disposal cost	(except for	hauling)		
	Incinerator Landfill Surface Impoundmen Land Treatment	- \$ 80 t - \$ 10	0-200/ton 0-150/ton 0-30/ton 0-40/ton		·
3.	Off-site disposal cost	(except for	hauling)		



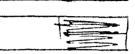
4. Off-site disposal hauling factor
[\$.02 - .10/ton mile]



5. Number of miles to off-site disposal



6. Off-site disposal having cost [Line 4 x Line 5]



7. Total off-site disposal cost [Line 3 + Line 6]



8. On-site disposal cost factor

Incinerator	- \$39-160/ton
Landfill	- \$24-120/ton
Surface Impoundment	- \$ 3- 24/ton
Land Treatment	- \$ 3 - 32/ton

9. On-site disposal cost
= [1(b) x Line 8]



10. Total inventory disposal cost
[Line 7 = Line 9]



### III. DECONTAMINATION AND DECOMMISSIONING

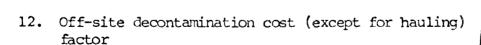
11. Fill-in following table:

Off-Site On-Site Disposal

Contaminated Soil (tons)

Wastewater (tons)

Total (tons) (a) (b)

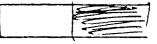




Incinerator - \$100-200/ton
Landfill - \$80-150/ton
Surface Impoundment - \$10-30/ton
Land Treatment - \$10-40/ton



13. Off-site decontamination cost (except for hauling) = [11(a) x Line 12]



14. Off-site hauling factor [\$.02 - .10/ton mile]



15. Number of miles to off-site disposal



16. Off-site hauling cost
 [Line 14 x Line 15]



17. Total off-site decontamination cost
 [Line 13 + Line 16]

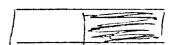


18. On-site decontamination cost factor

-\$30-160/ton -\$24-120/ton

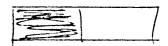
Landfill
Surface Impoundment
Land Treatment

-\$ 3- 24/ton -\$ 3- 32/ton



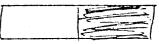
20. Total decontamination cost

Incinerator

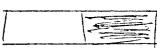


### IV. GROUNDWATER MONITORING

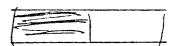
21. Number of wells



22. Groundwater monitoring cost factort [\$200 - 500/well]



23. Groundwater monitoring cost [Line 21 x Line 22]

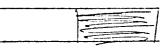


### V. CERTIFICATION

24. Hours of professional engineer time



25. Professional engineer cost factor [\$50 - 100/hour]



26. Certification cost [Line 24 x Line 25]

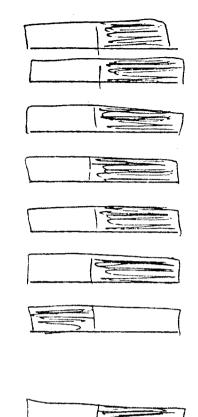


### VI. COVER

- 26. Acres not covered
- 27. Depth of cover
- 28. Cost of clay cover factor [\$500 1,500/per foot per acre]
- 29. Cost of clay cover [Line 26 x Line 27 x Line 28]
- 30. Cost of synthetic liners factor [\$500 20,000/acre]
- 31. Cost of synthetic liners
  [Line 26 x Line 30]
- 32. Cost of cover [Line 29 + Line 31]

### VII. VEGETATION

- 33. Acres not vegetated
- 34. Cost of vegetation factor [\$400 1,500/acre]
- 35. Cost of vegetation [Line 33 x Line 34]

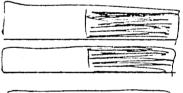


III.	OTH	ER (SPECIFY)	
	36.		
	37.	·	
	<b>3</b> 8.		
	39.		
	40.		
	41.	Total other [Lines 36 through 40]	
	TOT	AL COST	
	Li	ne 10 + Line 20 + Line 23 + ne 26 + Line 32 + Line 35 + ne 41]	

## IX. INFLATION ADJUSTMENT

[If facility visit takes place after May 19, 1982]

- 1. Total cost estimate from above
- 2. Inflation factor
- 3. Adjusted cost estimate [Line 1 x Line 3]





#### CLOSURE COST ESTIMATES COMPARISON

		Difference		Percentage Difference	
	,			<u>b-a</u> × 100	Remarks
1.	Inventory Disposal (Line 10)				
11.	Decontamination (Line 20)				
111.	Groundwater Monitoring (Line 23)				
iV.	Certification (Line 26)				
٧.	Cover (Line 32)				
VI.	Vegetation (Line 35)				
VII.	Other (Line 41)				
	TOTAL				